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## Patents

 Patents 1 - 50 on **detect direction hand pointing**. (0.08 seconds)

### Hand pointing device

US Pat. 6385331 - Filed Mar 18, 1998 - Takenaka Corporation

 For example, the tip of the **hand**, the finger or the like of the person to be ...

 Furthermore, the **direction** of the change in the distance between the ...

### Operation input apparatus using sensor attachable to operator's hand

US Pat. 6744420 - Filed May 31, 2001 - Olympus Optical Co., Ltd.

 When a predetermined operation mode such as a **pointing** mode is obtained by a **hand** gesture, the image processing chip is used to obtain translatory ...

### Pointing device having coordinate input which generates magnetic flux

US Pat. 5698976 - Filed Aug 21, 1995 - Fujitsu Limited

 On the other **hand**, the periodic maintenance is also detecting a movement of the ball 501 in the **direction** x. In **pointing** device, and the optical sensor must ...

### Pointing device with hand detection

US Pat. 6859196 - Filed Sep 26, 2001 - Logitech Europe S.A.

 In many instances, it is desired to bring a **pointing** device into a power saving

 ... The **hand detect** signal will awaken the input device from its sleep mode. ...

### Manipulative pointing device, and portable information processing apparatus

US Pat. 6208328 - Filed Feb 24, 1998 - International Business Machines Corporation

 That is, movement of an item cannot be performed in an arbitrary **direction**.

 Also, this input device cannot be manipu-lated with one **hand**, because it employs ...

### Automatic hand-supportable code symbol scanning device with improved laser beam pointing efficiency

US Pat. 5468951 - Filed Aug 19, 1994 - Metrologic Instruments, Inc.

 ... in response to said processing means failing to **detect** and decode said code

 ... has a longitudinal dimension which extends in a longitudinal **direction**, ...

### Rolling/sliding type pointing device

US Pat. 6337680 - Filed Aug 18, 1999

 This mousepad is irradiated by a laser to **detect** the mouse's movement. The aforesaid **direction** and distance to be pro-vided to the computer are found from ...

### Apparatus for sensing the position of a pointing object

US Pat. 6998856 - Filed Jun 28, 2002 - Ethertouch

 6, that is incorporated into the keyboard and wherein the left **hand** side active area

 ... **direction**, and are thus able to **detect** the position of the **pointing** ...

### Coordinate input apparatus and method, coordinate input pointing device, storage medium, and computer program

US Pat. 6636199 - Filed Apr 6, 2001 - Canon Kabushiki Kaisha

 On the other **hand**, the **pointing** device 101 is a wireless device that is mainly

 ... **direction**, they **detect** data sequences having a predetermined disparity. ...

Integrated keyboard and pointing device system

US Pat. 5124689 - Filed Sep 26, 1989 - Home Row, Inc.

55 The step of moving a **hand** to the **pointing** device includes whatever is required  
... **Direction** sensors 238 are embedded in the array 232 to **detect pointing** ...

Lateral direction detection sonar

US Pat. 5367498 - Filed Mar 9, 1992

30 to further turn the **pointing direction** of the transmitting Reception ... "  
step S4, the procedure advances to a step S5 to **detect** set is probed with the ...

Position detecting apparatus and position pointing device including elapsed time period build up detector

US Pat. 5682019 - Filed Jun 15, 1995 - Wacom Co., Ltd.

On the other tance between the position **pointing** section 15 and the center ...  
210 in order to trace the On the other **hand**, the position **pointing** device 40, ...

Robot device, robot device action control method, external force detecting device and external force detecting method

US Pat. 6754560 - Filed Mar 14, 2002 - Sony Corporation

Then, the longitudinal **direction** of the **hand** 142 is deter-mined as shown in FIG.  
37C because the shape of the **hand pointing** to an object is generally ...

Wireless control device

US Pat. 6747632 - Filed Sep 7, 2001 - Harmonic Research, Inc.

Three dimensional scans of the user's **hand** may also provide input images for ...  
emitter-detector pairs **detect** said x- and y-directions of said **pointing** ...

Method for determining a candidate of a branched direction of a linear image

US Pat. 5416894 - Filed Oct 14, 1992 - Hitachi Software Engineering Co., Ltd.

On the other **hand**, the branch pro- the branch processing section for determining  
... processing for **detect**- image is determined as a first trace base point, ...

Point detecting device and method of same

US Pat. 5646377 - Filed Feb 16, 1995

Under this condition, the **pointing** X-axial **direction** and receiving in the ...  
detecting system may also be affected by a Y-axial **direction** to **detect** the X- ...

Computer pointing device

US Pat. 5959612 - Filed Aug 13, 1996

The **pointing** device described herein is based on the detection of the amount and  
**direction** of the movement of the operator's palm 5 in front of the here ...

METHOD AND SENSING DEVICE FOR MOTION DETECTION IN AN OPTICAL POINTING DEVICE, SUCH AS AN OPTICAL MOUSE

US Pat. 7122781 - Filed Dec 3, 2002 - EM Microelectronic

7 Edge **Direction** Motion Detection" algorithm. Both algo- Still referring to FIG.  
... The optical **pointing** device typically comprises a window As ...

WEFT-DETECTING METHOD AND APPARATUS

US Pat. 3324718 - Filed Jan 12, 1965

The improved method thus includes the step of **detect**-ing the slope of the ...  
- 40 larly **pointing** out the subject matter which I regard as my invention, ...

**Hand gesture machine control system**

US Pat. 5594469 - Filed Feb 21, 1995 - Mitsubishi Electric Information Technology Center America Inc.

In one embodiment, if the **hand** icon moves in the **direction** that the slider is designed to ... and the index 35 finger in **pointing** in the given **direction**, ...

**ELECTROLUMINESCENT DISPLAY DEVICE**

US Pat. 7098592 - Filed Nov 5, 2004 - Sanyo Electric Co

Light emitted in a vertical **direction** through the front surface of the ...

Therefore, the position of this light sensor 31A which does not **detect** the light ...

**Coordinate input apparatus**

US Pat. 5861874 - Filed Jun 24, 1997 - Sharp Kabushiki Kaisha

For example, the electrodes 4, 5 **detect** the coordinate of a position in the 40

X **direction** indicated by an arrow 17 in the **pointing** area 3 and the ...

**WEFT-DETECTING METHOD AND APPARATUS**

US Pat. 3350933 - Filed Jun 29, 1965

By detecting this local **direction** of warp move-ment, the relation of the ...

with claims particu-larly **pointing** out the subject matter which I regard as my ...

**Virtual pointing device for touchscreens**

US Pat. 5835079 - Filed Jun 13, 1996 - International Business Machines Corporation

... the portion of the **hand** across 45 the touchscreen in a first **direction** and at a

... for causing the computer to **detect** a **hand** placed on the touchscreen; ...

**Arrangements for detecting rotational or translatory movement and the direction thereof**

US Pat. 6448760 - Filed May 14, 1999 - Brose Fahrzeugteile GmbH & Co. KG, Coburg

By means of the detection of these variables, it is possible to uniquely **detect** the position 40 and **direction** of movement as well as the dynamic ...

**Intermittent operating type pointing device**

US Pat. 6847031 - Filed Dec 4, 2002 - Alps Electric Co., Ltd.

The case is moved while being held by a **hand** and the amount of 20 movement ...

Thus, high resolution to **detect** the amount of movement can be main-tained and ...

**Hands-free bar code scanner with finger activated optical control**

US Pat. 5340972 - Filed Apr 3, 1992 - Symbol Technologies, Inc.

... followed by a **pointing** positional movement of one or more fingers by an 10

... scanner is aimed in the **direction** of the point- 40 fingers of the **hand** of ...

**Apparatus and method for detecting magnetically detectable plastic pipe and other sources of magnetic fields from a distance using a vertically aligned gradiometer on a horizontal support**

US Pat. 5321361 - Filed Oct 5, 1992

18 and 19 in a horizontal **direction**. PIPES HAVING THE **DIRECTION** OF THE ...

OF THE **HAND**-HELD MAGNETIC LOCATOR The **hand**-held magnetic locator shown in FIGS. ...

**Integrated keyboard and pointing device system with automatic mode change**

US Pat. 6107996 - Filed Nov 24, 1992 - InControl Solutions, Inc.

The step of moving a **hand** to the **pointing** device includes whatever is required to

... **Direction** sensors 238 are embedded in the array 232 to **detect** **pointing** ...

**Hand held light actuated point and click device**

US Pat. 6600478 - Filed Jan 4, 2001 - International Business Machines Corporation

**HAND HELD LIGHT ACTUATED POINT AND CLICK DEVICE FIELD OF THE INVENTION** 5 This invention relates to a **pointing** device for human interaction with a computer ...

#### Coordinates input apparatus

US Pat. 4848496 - Filed Jun 14, 1988 - Wacom Co., Ltd.

In consequence, the erally difficult to **detect** the positions right above the ...

The thus determined coordinate val- **pointing** device has to be placed in the ...

#### Gesture-based input interface system with shadow detection

US Pat. 6624833 - Filed Apr 17, 2000 - Lucent Technologies Inc.

ground which allows generation of an image in which both the **hand** and its ...

to **detect** and identify the particular **hand** gestures made by the user, and to ...

#### Pen input device

US Pat. 5444193 - Filed Sep 20, 1993 - Ricoh Company, Ltd.

The photoelectric conversion elements 8 and 9 **detect** this moving image la' of the reference line la. In this case, every time the tip of the **pointing** device ...

#### Method and apparatus for controlling computer without touching input device

US Pat. 5900863 - Filed Mar 13, 1996 - Kabushiki Kaisha Toshiba

**Pointing** accomplished by using a mouse, a track ball, a touch pad, or a small joystick proceeds in the following sequence of steps: 1. **Detect** the position ...

#### XX X XX

US Pat. 7091954 - Filed Jul 17, 2002

**Pointing** devices that have poor sensing ability, such as the joystick, track stick, desktop mouse or trackball, might not be able to **detect** a finger ...

#### Pointing device

US Pat. 5379054 - Filed Apr 25, 1994 - ASCII Corporation

1(B), when the **pointing** device is set upside down by the user, ... Furthermore, when the user pushes the coordinate converting unit 4, the **detect**-ing switch ...

#### Pointing device and information processing apparatus

US Pat. 6618037 - Filed Apr 30, 2001 - Fuji Xerox Co., Ltd.

... in the **pointing** device X-axis **direction** and for the Y-axis **direction**, it is possible to 10 of this preferred embodiment. The surface layer 119 is **detect** ...

#### Photographic optical system controlling apparatus

US Pat. 5210566 - Filed Apr 17, 1991 - Mitsubishi Denki Kabushiki

... the object has moved in a right-**hand direction**, is input representative point.

... As a **pointing** device used in its size on detecting the motion vector, ...

#### Profile control system for robots

US Pat. 5590244 - Filed Jan 18, 1995 - Fujitsu Limited

Also, the unit vector o **pointing** in the **direction** in which the ... force F that the robot's **hand** receives from the work object at the starting point. FIGS. ...

#### Position detecting apparatus

US Pat. 4878553 - Filed Sep 14, 1987 - Wacom Co., Ltd.

In addition, it is rather difficult to **detect** the and the coordinates of the ...

moved in the **direction** perpendicular to the **direction** of Accordingly, ...

Coordinate position inputting/detecting device, a method for inputting/detecting the coordinate position, and a display board system

US Pat. 6760009 - Filed Jun 10, 2002 - Ricoh Company, Ltd.

On the other **hand**, in the coordinate-position inputting/detecting device in the first case, an infrared LED has to be provided in a **pointing** body, ...

Integrated keyboard system with typing and **pointing** modes of operation

US Pat. 5245321 - Filed Mar 20, 1992 - Home Row, Inc.

Preferably, the **direction** sensors are force application program and the **pointing** device 120. This "?" are «"bedded »the array 232 to **detect pointing** faces ...

**Pointing** device for controlling cursor movement on display

US Pat. 5748180 - Filed Nov 3, 1994 - Brother Kogyo Kabushiki Kaisha

The **pointing** device according to claim 5, wherein the piezoelectric element is polarized in a **direction** parallel to the stick member. ...

Laser **pointing** sighting system with designator range finder

US Pat. 7053993 - Filed Mar 6, 2002 - SAGEM Défense Sécurité

LASER **POINTING** SIGHTING SYSTEM WITH DESIGNATOR RANGE FINDER GENERAL FIELD ... of this vehicle to have means allowing it to **detect** the illumination 25 spot ...

Profile control system for robots

US Pat. 5732195 - Filed Aug 7, 1996 - Fujitsu Limited

5 is deviation of a force **detect** output of force detector 11 from toe same ... of a and na unit vector o **pointing** in toe **direction** of toe contact. end moves ...

Scanning method for sensor coils in coordinate data input device

US Pat. 5691513 - Filed Sep 25, 1995 - Wacom Co., Ltd.

On the other **hand**, a **pointing** device 50i> sensor cou and \*\*\* \*« selected ... 6' in a loa^ detecting process to **detect** the is defined by H1 as shown in FIG. ...

Input apparatus

US Pat. 5453758 - Filed Jul 29, 1993 - Sony Corporation

30 35 Also, each embodiment is suitably used for a **pointing** device. ... In the resting state, a movement **detect** value coming from the AD converter 32 should ...

Laptop with buttons configured for use with multiple **pointing** devices

US Pat. 6107990 - Filed Sep 17, 1997 - Micron Electronics, Inc.

If force is applied to the **pointing** stick in a **direction** parallel to the ... be easily manipulated by a **hand** while the **hand** operates the **pointing** stick. ...

Human interactive type display system

US Pat. 6128014 - Filed Jul 10, 1997 - Tokyo University of Agriculture and Technology

On a right-**hand** side of the counter 109, there are displayed incrementing button ... processing said enable signal and position signal to **detect a direction** ...

Human interactive type display system

US Pat. 6683628 - Filed May 11, 2000 - Tokyo University of Agriculture and Technology

On a right-**hand** 10 side of the counter 109, there are displayed ... processing said enable signal and position signal to **detect a direction** and a distance ...

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Result Page:    1   2   3   4   5   6   7   8   9   10    **Next**

detect direction hand pointing

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